NUCLEAR MEDICINE PROCEDURE QUICK GUIDE

PROCEDURE/CPT CODE	PATIENT PREP/DURATION	COMMON INDICATIONS
NUCLEAR CARDIAC STRESS TEST **-78452** NM rest & str myo perf SPECT **-93017** NM cardiac stress test **-A9502** X2 Isotope Diagnostic Myoview **PHARMACOLOGIC OPTIONS (IF TREADMILL STRESS IS NOT APPROPRIATE FOR PATIENT)** **-J2785** Regadenoson Inj 4 MG **-J1250** Dobutamine inj. per 250 mg ****USE CARDIAC STRESS FORM**** ****NM WILL USE DECISION TREE TO SELECT APPROPRIATE STRESS OPTION**** ****OBTAIN CLINIC NOTES ON ONE CHART OR PHYSICIAN OFFICE****	- Get a good night's rest the night before the test - Nothing to eat or drink after midnight. (If patient is diabetic and has low blood glucose, they may have OJ and toast) - Wear comfortable loose-fitting clothes and walking shoes (tennis shoes, no sandals) - For 12 hours before the test, no caffeinated or decaf products. This includes: coffee, decaf coffee, colas, chocolate, any energy drinks or powders and Excedrin. - Please review your medications with your ordering physician if you have questions - For 24 hours before the test, you should not take any beta blockers (any medication that ends in -OLOL) or any nitrates (Nitro, Ranexa, or any medication that starts with ISO-) - Hold diabetic medications on the morning of the test - You may take any other medications including blood pressure medications with water - You may bring medications to take as soon as the stress test is completed - Please bring a snack or money for the cafeteria - Nuclear Stress Test time: 3.5 hours	- CHEST PAIN - ABNORMAL EKG - CHF - CAD - PALPITATIONS - SOB - PRE-OPERATIVE EVAL. - ANGINA PECTORIS - CABG STATUS - ACUTE MI

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BONE SCAN **3-PHASE** **-78315** NM bone 3 phase **-A9503** TC99M Medronate up to 30 mCi **SPECT/CT IF INDICATED (1 FOV)** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NO PREP - GENERAL HYDRATION IS HELPFUL - EXAM TIME TOTAL: 4HRS. · INITIAL: 15-30 MIN. · CIRCULATION TIME: 3 HRS. PATIENT MAY LEAVE DURING THIS TIME. · SCAN TIME: 15-45 MIN.	- POSSIBLE FRACTURE - LOOSENING PROSTHESIS - OSTEOMYELITIS VS. CELLULITIS - EVALUATION OF REFLEX SYMPATHETIC DYSTROPHY
BONE SCAN **LIMITED** **-78300** NM bone/joint limited **-A9503** TC99M Medronate up to 30 mCi **SPECT/CT IF INDICATED (1 FOV)** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NO PREP - GENERAL HYDRATION IS HELPFUL - EXAM TIME TOTAL: 3.5- 4 HRS. · INJECTION: 15 MIN. · CIRCULATION TIME: 3 HRS., PATIENT MAY LEAVE DURING THIS TIME. · SCAN TIME: 30 MIN.	- BONE/JOINT PAIN OF A FOCAL AREA
BONE SCAN **MULTIPLE (2 OR > AREAS)** **-78305** NM bone/joint multiple **-A9503** TC99M Medronate up to 30 mCi **SPECT/CT IF INDICATED (1 FOV)** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NO PREP - GENERAL HYDRATION IS HELPFUL - EXAM TIME TOTAL: 3.5- 4 HRS. · INJECTION: 15 MIN. · CIRCULATION TIME: 3 HRS. PATIENT MAY LEAVE DURING THIS TIME. · SCAN TIME: 30 MIN.	- BONE/JOINT PAIN OF MORE THAN ONE AREA
BONE SCAN **WHOLE BODY (TOTAL)** **-78306** NM bone scan whole body **-A9503** TC99M Medronate up to 30 mCi **SPECT/CT IF INDICATED (1 FOV)** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NO PREP - GENERAL HYDRATION IS HELPFUL - EXAM TIME TOTAL: 4 HRS. · INJECTION: 15 MIN. · CIRCULATION TIME: 3 HRS. PATIENT MAY LEAVE DURING THIS TIME. · SCAN TIME: 30-45 MIN. ***CANCER PATIENTS MUST HAVE CLINIC NOTES***	- STAGING, RE-STAGING EVALUATIONS FOR ANY TYPE OF CANCER - METASTATIC DISEASE - WIDESPREAD BONE PAIN - PAGET'S DISEASE

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GASTRIC EMPTYING (SOLID) **-78264** NM gastric emptying study **-A9541** TC99M Sulf/Colloid Unfiltered ****IF ALLERGIC TO EGGS, OATMEAL PROTOCOL MAY BE USED**** ****LIQUID GASTRIC EMPTYING MAY BE ORDERED BY PHYSICIAN IF PATIENT CANNOT EAT SOLID FOOD**** ****PLEASE ALERT IF ALLERGIC TO EGGS OR GLUTEN INTOLERANT****	- STRICT NPO AFTER MIDNIGHT - DISCONTINUE SEDATIVES/NARCOTICS 12 HR. PRIOR - BRING MEDICATION LIST - CONTRAINDICATION: ALLERGY TO EGGS - BRING MEDS; TECHNOLOGIST WILL INSTRUCT WHICH ONES CAN BE TAKEN WITH MEAL - TAKE ½ DIABETES MEDS DURING EXAM WITH MEAL - EXAM TIME: 4.25 HRS. ****USE GASTRIC FORM****	- GASTROPARESIS - WEIGHT LOSS - DELAYED GASTRIC EMPTYING - NAUSEA, VOMITING, EARLY SATIETY, BLOATING, UPPER ABDOMINAL DISCOMFORT - EVALUATE MECHANICAL OBSTRUCTION

GI BLEED
-78278 NM GI bleed study
-A9560 TC99M labeled RBCs (in vivo or in vitro)
 	
WITH SPECT/CT IF INDICATED
-78830 NM Rp Loc Tum SPECT/CT 1 area
 	
ONLY PERFORMED DURING REGULAR BUSINESS HOURS, IF CT CTA IS NEGATIVE
	- IT IS ONLY PERFORMED AFTER CT CTA IS PERFORMED AND NO ACTIVE BLEED IS FOUND. IF PATIENT HAS KIDNEY DYSFUNCTION OR ALLERGIES, THE APPROPRIATE HYDRATION OR PRE-MEDICATION PROTOCOL SHOULD BE UTILIZED
	- EXAM TIME TOTAL: 2 HRS.
	  - RBC TAGGING TIME: 30 MIN.
	  - IMAGING TIME: 1-1.5 HRS.
		- ACTIVE GI BLEED OF UNKNOWN ORIGIN

HIDA **-78226** NM hepatobiliary wo pharm (also used for EF with fatty meal) **-A9537** Technetium TX 99M choletec **WITH SPECT/CT IF INDICATED** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NO PREP - EXAM TIME: 1.25 HRS.	- EVALUATION OF CHOLECYSTITIS, GALL BLADDER INFLAMMATION, CYSTIC OR COMMON BILE DUCTS - EVALUATION OF OBSTRUCTION - EVALUATION AFTER GALLBLADDER SURGERY FOR SUSPECTED LEAK.

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HIDA W/EJECTION FRACTION (CCK) **-78227** NM hepatobiliary w pharm **-A9537** Technetium TX 99M choletec **-J2805** Kinevac **Technologist Note:** Order HIDA w/o pharm if fatty meal protocol is used	- STRICT NPO 6 HRS. - NO NARCOTICS MINIMUM 6 HRS. PRIOR - EXAM TIME: 2.5 HRS. +	- RUQ PAIN - ABDOMINAL PAIN - EVALUATION OF CHOLEYCYSTITIS - EVALUATION OF CHOLELITHIASIS; OBSTRUCTION - CALCULATION OF EF
MECKEL'S DIVERTICULUM **-78290** NM meckel's **-A9512** TC99M Pertechnetate/mCi **SPECT/CT IF INDICATED (1 FOV)** **-78830** NM Rp Loc Tum Spect wCT 1 Area	- NPO MINIMUM 4 HRS. - NO LAXATIVES OR POTASSIUM PERCHOLORATE 24 HRS. PRIOR - DOSE TAGAMET 20 mg/kg (PEDIATRIC) OR 300 mg/kg (ADULT) 2 DAYS PRIOR TO STUDY, 6X/DAY - EXAM TIME: 1.25 HRS.	- LOCALIZATION OF MECKEL'S - DIVERTICULUM
PARATHYROID SCAN WITH SPECT/CT **-78072** NM parathyroid **-A9500** TC99M Sestamibi per dose	- NO PREP - PLEASE PROVIDE PTH AND CA+ LAB RESULTS - EXAM TIME TOTAL: 2.5 HRS. - PATIENT WILL BE IMAGED 15 MINUTES AND 2 HOURS POST INJECTION TIME; THEY WILL HAVE APPROX. 1.5 HR. BREAK ***OBTAIN PTH AND CA+ LAB VALUES ***	- ELEVATED PTH AND CA+ LAB RESULTS - DETECTION/LOCALIZATION OF PARATHYROID CA - DETECTION/LOCALIZATION OF ADENOMAS OR - PARATHYROID TISSUE
MUGA **-78472** NM muga **-A9560** TC99M Labeled Blood Cell/30 mCi	- NO PREP - EXAM TIME: 1.25 HRS.	- EVALUATE WALL MOTION - CALCULATION OF EF, VENTRICULAR VOLUME, CARDIAC OUTPUT AND DIASTOLIC FUNCTION - ASSESSMENT OF CHF - EVALUATION PRE/POST CHEMO OR RAD. TX - DYSPNEA

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SENTINEL NODE FOR BREAST **-38792** NM sentinel node inject only **-A9520** TC99m lymphoseek	- NPO FOR SURGERY - NO IMAGING REQUIRED - EXAM TIME: 15 MINUTES ****ORDER FROM DS SCHEDULING SYSTEM SHOULD STATE NM INJECTION, INDICATING LATERALITY****	- AIDS IN SURGICAL LOCALIZATION OF LYMPH NODES FOR SURGICAL INTERVENTION
LYMPHOSCINTIGRAPHY WITH SPECT/CT **-78195** NM sentinel node w imaging **-A9520** TC99m lymphoseek **-78830** NM Rp Loc Tum Spect wCT 1 Area **Technologist Note: Head/Face injections x 2; Other Locations x 4**	- NPO FOR SURGERY - EXAM TIME: 2 HRS. ****ORDER FROM DS SCHEDULING SHOULD STATE NM INJECTION WITH IMAGING, INDICATING LOCATION AND LATERALITY****	- IMAGING LOCALIZATION OF LYMPH NODE INVOLVEMENT FOR SURGICAL INTERVENTION - MELANOMA
RENAL SCAN W/FLOW AND FUNCTION **-78707** NM renal flow wo pharm int **-A9562** Mertiatide Mag3 per 15 mCi	- PATIENT SHOULD BE WELL HYDRATED - EXAM TIME: 30-45 MIN.	- EVALUATION OF KIDNEY TRANSPLANT - EVALUATION OF RENAL TUBULAR FUNCTION AND PERFUSION
RENAL SCAN W/FLOW, FUNCTION, AND WASHOUT (LASIX) **-78708** NM renal flow w pharm int **-A9562** Mertiatide Mag3 per 15 mCi	- PATIENT SHOULD BE WELL HYDRATED - EXAM TIME: 45 MIN.-1 HR.	- EVALUATION OF RENAL OBSTRUCTIVE NEPHROPATHY AND/OR HYDRONEPHROSIS - EVALUATION OF KIDNEY TRANSPLANT - EVALUATION OF RENAL TUBULAR FUNCTION AND PERFUSION

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CARDIAC AMYLOID **-78830** (PLANAR WITH SPECT/CT) NM Rp Loc Tum Spect wCT 1 Area; NM cardiac amyloid study **-A9538** TC99M Pyrophosphate up to 25 mCi ****MUST CONTACT NM COLLEAGUE TO CHECK AVAILABILITY OF ISOTOPE FOR SCHEDULING****	- NO PREP - GENERAL HYDRTION IS HELPFUL - EXAM TIME TOTAL: 3.5 HRS. · INJECTION TIME: 15 MIN. · CIRCULATION TIME: 1 HR. · IMAGING TIME: 30 MIN. · IMAGING AT 3 HRS AT DISCRETION OF RADIOLOGIST BASED ON INITIAL IMAGES.	- DETECTION OF TRANSTHYRETIN-RELATED CARDIAC AMYLOIDOSIS (ATTR) - HEART FAILURE AND UNEXPLAINED INCREASE IN LV WALL THICKNESS - UNEXPLAINED HEART FAILURE WITH PRESERVED EF, OVER 60 - EVALUATION OF CARDIAC INVOLVEMENT IN INDIVIDUALS WITH FAMILIAL AMYLOIDOSIS HISTORY
LUNG PERFUSION/QUANTIFICATION **-78597** NM pul perf quan dif w image **-A9540** TC99M Macroag Albumin/10 mCi	- NO PREP - SCAN TIME: 20 MINUTES ****2-VIEW CHEST X-RAY REQUIRED WITHIN 24 HRS. OF SCAN****	- EVALUATE HIGH-RISK PATIENTS PREOPERATIVELY FOR SURGICAL CANDIDACY - EVALUATION OF PULMONARY PERFUSION
LUNG PERFUSION **-78580** NM pul perfusion **-A9540** TC99M Macroag Albumin/10 mCi ****LUNG VENTILATION IS NO LONGER PERFORMED AT THIS FACILITY**** ****If a physician is trying to order this for evaluation of PE, they should order a CT PE study instead, using the hydration protocol or premedicate patient as necessary****	- NO PREP - SCAN TIME: 20 MINUTES ****2-VIEW CHEST X-RAY REQUIRED WITHIN 24 HRS. OF SCAN****	- EVALUATION OF PULMONARY PERFUSION

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THYROID CANCER ABLATION **-78018** (X2) NM thyroid ca whole body **-78020** NM thyroid ca mets uptake add **-78830** NM Rp Loc Tum SPECT/CT 1 Area **-79005** NM tx rad pharm oral **-A9517** I131 Sodium Iodide TH Cap/mCi	**CONTACT NUCLEAR MEDICINE @ EXT.#2605**	- THYROID CANCER TREATMENT
THYROID CA EVALUATION **-78018** NM thyroid ca whole body **-78020** NM thyroid ca mets uptake add **-78830** NM Rp Loc Tum SPECT/CT 1 Area **-A9528** I131 Sodium Iodide Dx Cap/mCi **THYROGEN (IF INDICATED)** **-J3240** (x2) Thyrogen Drug **-96372** (x2) Injection Ther/Proph/Diag	**CONTACT NUCLEAR MEDICINE @ EXT.#2605**	- THYROID CANCER
THYROID UPTAKE AND SCAN (RAIU DIAGNOSTIC) **-78014** NM thyroid uptake multiple **-A9516** (x3) I123 Thyroid per/100 uCi	- DAY 1, TIME INITIAL: 15 MIN. - CIRCULATION: 4 HRS (PATIENT MAY LEAVE DURING THIS TIME) - UPTAKE AND SCAN: 30 MIN. - DAY 2 UPTAKE EXAM TIME: 5 MIN. ****DO NOT CALL**** ****REQUIRED LABS**** **-FREE T3** **-FREE T4** **TSH** ****USE THYROID FORM****	- EVALUATION OF THYROID ANATOMY - EVALUATION OF HYPERTHYROIDISM OR HYPOTHYROIDISM - TOXIC GOITER - THYROIDITIS - ABN THYROID SERUM LAB RESULTS - DIFFERENTIATION OF BENIGN VS. MALIGNANT THYROID NODULES

SPECIAL CONSIDERATIONS

****CHECK SCHEDULE AT 12 PM OR AFTER. AFTER 12 PM, PATIENT ACCESS SHOULD NOTIFY NUCLEAR MEDICINE OF ALL NEXT DAY ADD-ONS, NEXT DAY CANCELLATIONS, AND NEXT DAY TIME CHANGES SO THAT ISOTOPES MAY BE ORDERED OR CANCELLED.**

****I-123 UPTAKE AND SCANS REQUIRE FREE T3, FREE T4, AND TSH LAB VALUES. PLEASE OBTAIN FROM EMR OR PHYSICIAN'S OFFICE.**

****CLINIC NOTES SHOULD BE PULLED ON ALL CANCER PATIENTS**

****ALL THERAPY PROCEDURES MUST BE SCHEDULED DIRECTLY WITH NM COORDINATOR.**